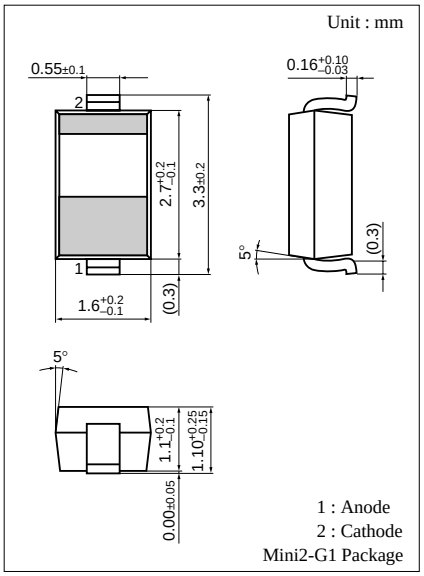
MA2X329 (MA329)

Silicon epitaxial planar type

For VHF electronic tuners



Marking Symbol: 6B

■ Features

- Large capacitance ratio
- Small series resistance r_D
- Mini type package, allowing downsizing of equipment and automatic insertion through the taping package

■ Absolute Maximum Ratings T_a = 25°C

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	32	V
Peak reverse voltage	V_{RM}	34	V
Forward current (DC)	I_F	20	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	−55 to +150	°C

■ Electrical Characteristics T_a = 25°C

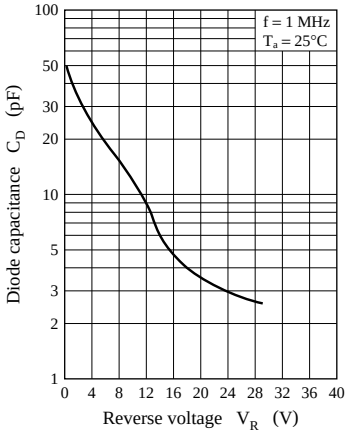
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	V_R = 30 V			10	nA
Diode capacitance	$C_{D(1V)}$	V_R = 1 V, f = 1 MHz		42		pF
	$C_{D(3V)}$	V_R = 3 V, f = 1 MHz	25.87		32.64	pF
	$C_{D(25V)}$	V_R = 25 V, f = 1 MHz	2.58		3.20	pF
	$C_{D(10V)}$	V_R = 10 V, f = 1 MHz	9.15		12.44	pF
	$C_{D(17V)}$	V_R = 17 V, f = 1 MHz	3.28		4.46	pF
Capacitance ratio	$C_{D(3V)}/C_{D(25V)}$		9			—
Diode capacitance deviation	ΔC	$C_{D(3V)(10V)(17V)(25V)}$			3	%
Series resistance*	r_D	C_D = 9 pF, f = 470 MHz			1.6	Ω

Note) 1. Rated input/output frequency: 470 MHz

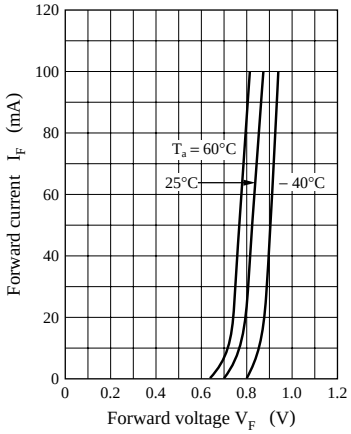
2. * : r_f measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER

Note) The part number in the parenthesis shows conventional part number.

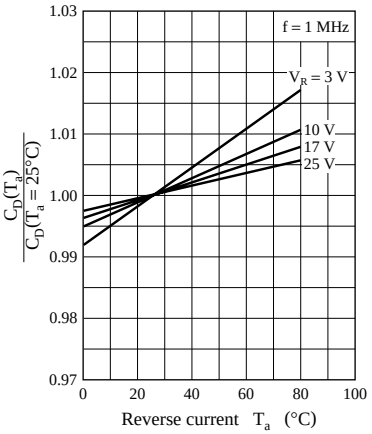
C_D — V_R



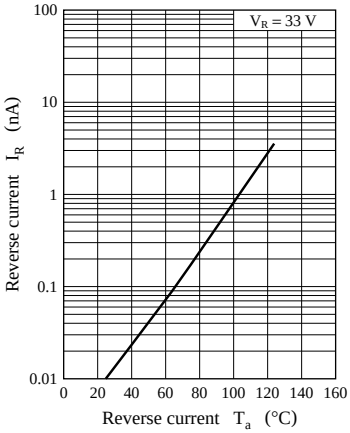
I_F — V_F



C_D — T_a

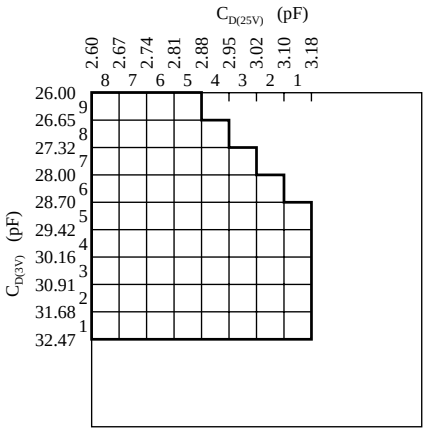


I_R — T_a

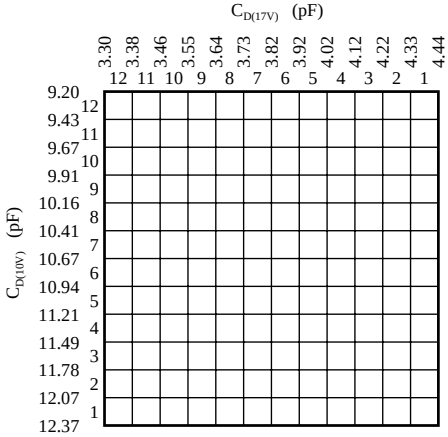


C_D rank classification

Primary rank classification



Secondary rank classification



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